

Title (en)

ROOFING COVER BOARD, ROOFING PANEL COMPOSITE, AND METHOD

Title (de)

DACHABDECKPLATTE, DACHPLATTENVERBUND UND ENTSPRECHENDES VERFAHREN

Title (fr)

PLAQUE DE REVETEMENT DE TOITURE, COMPOSITE DE PANNEAU DE TOITURE, ET PROCEDE CORRESPONDANT

Publication

EP 1815079 A4 20091021 (EN)

Application

EP 05849184 A 20051107

Priority

- US 2005040104 W 20051107
- US 98412204 A 20041109

Abstract (en)

[origin: US2006096205A1] A prefabricated cover board has a high-density polymer or predominantly polymer material core layer having a density between 6 lbs/ft³ and 25 lbs/ft³. A prefabricated roofing panel composite includes the cover board and an insulation board that has a low-density polymer or predominantly polymer material foam core layer having a density less than 6 lbs/ft³. The cover board may have a waterproofing membrane forming the top major surface of the cover board. When making the roofing panel composite, the low-density foam core layer of the insulation board may be formed with the high-density core layer of the cover board being currently or subsequently formed over and bonded to a top major surface of the low-density foam core layer in the same operation or preformed insulation boards may be fed into a production line with the high-density core layer of the cover board being formed over and bonded to top major surfaces of the low-density foam core layers of the insulation boards.

IPC 8 full level

E04B 9/00 (2006.01); **B32B 7/02** (2019.01); **E04C 2/296** (2006.01); **E04D 3/35** (2006.01)

CPC (source: EP US)

B29C 44/24 (2013.01 - EP US); **B29C 44/326** (2013.01 - EP US); **B29D 99/001** (2013.01 - US); **B32B 5/022** (2013.01 - US); **B32B 5/18** (2013.01 - US); **B32B 5/24** (2013.01 - US); **B32B 7/02** (2013.01 - EP US); **B32B 27/32** (2013.01 - US); **B32B 27/40** (2013.01 - US); **B32B 27/42** (2013.01 - US); **E04C 2/205** (2013.01 - US); **E04C 2/284** (2013.01 - US); **E04C 2/296** (2013.01 - EP US); **E04D 3/18** (2013.01 - US); **E04D 3/351** (2013.01 - US); **E04D 3/352** (2013.01 - EP US); **E04D 3/354** (2013.01 - EP US); **E04D 12/00** (2013.01 - EP); **B29K 2075/00** (2013.01 - EP US); **B32B 2038/0084** (2013.01 - US); **B32B 2262/101** (2013.01 - US); **B32B 2307/72** (2013.01 - US); **B32B 2419/06** (2013.01 - US); **Y10T 156/10** (2015.01 - EP US); **Y10T 428/24331** (2015.01 - EP US); **Y10T 428/24967** (2015.01 - EP US); **Y10T 428/24992** (2015.01 - EP US); **Y10T 428/249953** (2015.04 - EP US); **Y10T 428/24998** (2015.04 - EP US); **Y10T 428/249987** (2015.04 - EP US); **Y10T 428/249989** (2015.04 - EP US)

Citation (search report)

- [XY] GB 1341684 A 19731225 - ROBERTSON CO H H
- [X] EP 0940249 A2 19990908 - CELOTEX CORP [US]
- [X] US 2004014382 A1 20040122 - MACAULAY JOHN J [US]
- [Y] US 4680214 A 19870714 - FRISCH KURT C [US], et al
- [Y] GB 1327533 A 19730822 - UPJOHN CO
- [Y] CH 674042 A5 19900430 - AUGUST KUNZ
- [E] EP 1655421 A2 20060510 - JOHNS MANVILLE INT INC [US]
- See references of WO 2006052789A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

US 2006096205 A1 20060511; CA 2586357 A1 20060518; CA 2586357 C 20100615; EP 1815079 A2 20070808; EP 1815079 A4 20091021; EP 1815079 B1 20210106; US 10087634 B2 20181002; US 2006260237 A1 20061123; US 2007022711 A1 20070201; US 2010189977 A1 20100729; US 2010313514 A1 20101216; US 2011131910 A1 20110609; US 2012196106 A1 20120802; US 2013139470 A1 20130606; US 2013139471 A1 20130606; US 2013145722 A1 20130613; US 2016305126 A1 20161020; US 2018155930 A1 20180607; US 2018371758 A1 20181227; US 7718253 B2 20100518; US 7811663 B2 20101012; US 8105685 B2 20120131; US 8287997 B2 20121016; US 8426017 B2 20130423; US 8470436 B1 20130625; US 8597779 B2 20131203; US 8617699 B2 20131231; US 9909317 B2 20180306; WO 2006052789 A2 20060518; WO 2006052789 A3 20071227

DOCDB simple family (application)

US 98412204 A 20041109; CA 2586357 A 20051107; EP 05849184 A 20051107; US 2005040104 W 20051107; US 201213442946 A 20120410; US 201313758034 A 20130204; US 201313758077 A 20130204; US 201313758111 A 20130204; US 201615193729 A 20160627; US 201815874770 A 20180118; US 201816122771 A 20180905; US 40823106 A 20060420; US 51904206 A 20060911; US 70330810 A 20100210; US 75414110 A 20100405; US 79290110 A 20100603